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	DB=PGPB, USF	PT,USOC,EPAB,JPAB,DWPI;	PLUR=YES; OP=ADJ
	L4	12 not L3	23
	L3	L1 with luciferase	4
\Box	L2	L1 and luciferase	27
	L1	phrixothrix	27

END OF SEARCH HISTORY

Clear Generate Collection Print Fwd Refs Bkwd Refs
Generate OACS

Search Results - Record(s) 1 through 4 of 4 returned.

1. Document ID: US 20030135871 A1

Using default format because multiple data bases are involved.

L3: Entry 1 of 4

File: PGPB

Jul 17, 2003

PGPUB-DOCUMENT-NUMBER: 20030135871

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030135871 A1

TITLE: Modified railroad worm red luciferase coding sequences

PUBLICATION-DATE: July 17, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Nawotka, Kevin A. Alameda CA US Zhang, Weisheng Fremont CA US

US-CL-CURRENT: 800/8; 435/320.1, 435/325, 536/23.2

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw Do

2. Document ID: US 20020119542 A1

L3: Entry 2 of 4 File: PGPB Aug 29, 2002

PGPUB-DOCUMENT-NUMBER: 20020119542

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020119542 A1

TITLE: Nucleic acid molecules encoding red and green emitting luciferases

PUBLICATION-DATE: August 29, 2002

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Viviani, Vadim R. Somerville MA US Ohmiya, Yoshihiro Shimizu JP

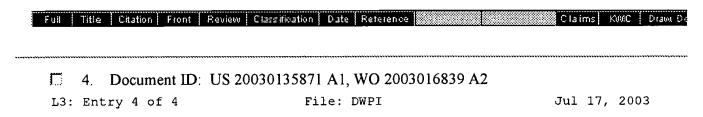
US-CL-CURRENT: $\underline{435/189}$; $\underline{435/320.1}$, $\underline{435/325}$, $\underline{435/69.1}$, $\underline{435/8}$, $\underline{536/23.2}$

Ī	Full	Title	Citation	Frant	Review	Classification	Date	Reference	Sequences	Attachmenta	Clair	ns i	CONC	Draw	D.
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		3.	Docume	nt ID:	WO 30	16839 A2									
	L3:	En [†]	try 3 of	4		Fi	le:	EPAB			Feb	27,	200	3	

PUB-NO: WO003016839A2

DOCUMENT-IDENTIFIER: WO 3016839 A2

TITLE: MODIFIED RAILROAD WORM RED LUCIFERASE CODING SEQUENCES



DERWENT-ACC-NO: 2003-268358

DERWENT-WEEK: 200348

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TITLE: Novel modified polynucleotide of Phrixothrix hirtus red Luciferase encoding polypeptide capable of mediating light-production, useful as reporter molecule in host cells and/or transgenic animals

Full Title Citation Front Review Classification Date Reference Claims KWIC Draw De Clear Generate Collection Print Fwd Refs Bkwd Refs Generate OACS

Terms Documents

L1 with luciferase 4

Previous Page Next Page Go to Doc#

Clear Generate Collection Print Fwd Refs Bkwd Refs
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Search Results - Record(s) 1 through 10 of 23 returned.

1. Document ID: US 20040002127 A1

Using default format because multiple data bases are involved.

L4: Entry 1 of 23

File: PGPB

Jan 1, 2004

Jun 19, 2003

PGPUB-DOCUMENT-NUMBER: 20040002127

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040002127 A1

TITLE: Luciferase and photoprotein

PUBLICATION-DATE: January 1, 2004

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Inouye, Satoshi Yokohama-shi JP

US-CL-CURRENT: 435/8; 435/191, 435/320.1, 435/325, 435/69.1, 536/23.2

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWC | Draw De

File: PGPB

2. Document ID: US 20030113741 A1

PGPUB-DOCUMENT-NUMBER: 20030113741 PGPUB-FILING-TYPE: new

L4: Entry 2 of 23

DOCUMENT-IDENTIFIER: US 20030113741 A1

TITLE: Apparatus and method for detecting and identifying infectious agents

PUBLICATION-DATE: June 19, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Bryan, Bruce J. Beverly Hills CA US Gaalema, Stephen Colorado Springs CO US Murphy, Randall B. Irvington NY US

US-CL-CURRENT: 435/6; 435/287.2, 435/7.9

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KMC | Draw Do

3. Document ID: US 20030092098 A1

L4: Entry 3 of 23

File: PGPB

May 15, 2003

PGPUB-DOCUMENT-NUMBER: 20030092098

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030092098 A1

TITLE: Renilla reniformis fluorescent proteins, nucleic acids encoding the

fluorescent proteins and the use thereof in diagnostics, high throughput screening

and novelty items

PUBLICATION-DATE: May 15, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Bryan, Bruce Beverly Hills CA US Szent-Gyorgyi, Christopher Pittsburgh PA US Szczepaniak, William Pittsburgh PA US

US-CL-CURRENT: 435/69.1; 530/350

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De

4. Document ID: US 20030066096 A1

L4: Entry 4 of 23

File: PGPB

Apr 3, 2003

PGPUB-DOCUMENT-NUMBER: 20030066096

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030066096 A1

TITLE: Bioluminescent novelty items

PUBLICATION-DATE: April 3, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Bryan, Bruce Beverly Hills CA US

US-CL-CURRENT: 800/8; 162/162, 42/54, 424/450, 424/456, 424/70.14, 442/131

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KWC Draw De

5. Document ID: US 20030059798 A1

L4: Entry 5 of 23 File: PGPB Mar 27, 2003

Jan 16, 2003

Aug 1, 2002

Record List Display

PGPUB-DOCUMENT-NUMBER: 20030059798

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030059798 A1

TITLE: Apparatus and method for detecting and identifying infectious agents

PUBLICATION-DATE: March 27, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Bryan, Bruce J. Beverly Hills CA US
Gaalema, Stephen Colorado Springs CO US
Murphy, Randall B. Irvington NY US

US-CL-CURRENT: 435/6

Fu		Title	Citation Front R	eview Classification	Date	Reference	Sequences	Attachments	Claims	KMIC	Draw, De

Γ	_	6.	Document ID: U	JS 20030013103	$\mathbf{A1}$						

File: PGPB

L4: Entry 6 of 23

PGPUB-DOCUMENT-NUMBER: 20030013103

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030013103 A1

TITLE: Apparatus and method for detecting and identifying infectious agents

PUBLICATION-DATE: January 16, 2003

INVENTOR-INFORMATION:

NAME CITY STATE COUNTRY RULE-47

Bryan, Bruce J. Beverly Hills CA US Gaalema, Stephen Colorado Springs CO US Murphy, Randall B. Irvington NY US

US-CL-CURRENT: 435/6; 356/319, 435/287.2, 435/7.9

	Full	Title	≥ Citation Front	Review Classification	Date	Reference	Sequences	Attachments	Claims	KMIC	Draw. De
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File: PGPB

PGPUB-DOCUMENT-NUMBER: 20020102687

PGPUB-FILING-TYPE: new

L4: Entry 7 of 23

DOCUMENT-IDENTIFIER: US 20020102687 A1

TITLE: Luciferase and photoprotein

Record List Display

PUBLICATION-DATE: August 1, 2002

INVENTOR-INFORMATION:

STATE COUNTRY RULE-47 CITY NAME

JΡ Inouye, Satoshi Yokohama-shi

US-CL-CURRENT: 435/189; 435/325, 435/8, 536/23.2

Full Title Citation Front Review Classification Date Reference Sequences Attachments Claims KMC Draw De 8. Document ID: US 20020090659 A1 Jul 11, 2002 L4: Entry 8 of 23 File: PGPB

PGPUB-DOCUMENT-NUMBER: 20020090659

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020090659 A1

TITLE: Detection and visualization of neoplastic tissues and other tissues

PUBLICATION-DATE: July 11, 2002

INVENTOR-INFORMATION:

COUNTRY RULE-47 NAME CITY STATE

Beverly Hills CA US Bryan, Bruce

US-CL-CURRENT: 435/7.23; 424/9.6

Full Title Citation Front Review Classification Date Reference Sequences Attachinents Claims KMC Draw De 9. Document ID: US 20020004942 A1 File: PGPB Jan 10, 2002

PGPUB-DOCUMENT-NUMBER: 20020004942

PGPUB-FILING-TYPE: new

L4: Entry 9 of 23

DOCUMENT-IDENTIFIER: US 20020004942 A1

TITLE: Bioluminescent novelty items

PUBLICATION-DATE: January 10, 2002

INVENTOR-INFORMATION:

COUNTRY RULE-47 STATE NAME CITY

Bryan, Bruce Beverly Hills CA

US-CL-CURRENT: 800/288

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10. Document ID: US 6682899 B2

L4: Entry 10 of 23

File: USPT

Jan 27, 2004

US-PAT-NO: 6682899

DOCUMENT-IDENTIFIER: US 6682899 B2

TITLE: Apparatus and method for detecting and identifying infectious agents

Full	Title Citation	Front	?eview	Classification	Date	Reterence				Claims	KWIC	Draw, De
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Search Results - Record(s) 11 through 20 of 23 returned.

11. Document ID: US 6649357 B2

Using default format because multiple data bases are involved.

L4: Entry 11 of 23

File: USPT

Nov 18, 2003

Nov 18, 2003

Jul 22, 2003

US-PAT-NO: 6649357

DOCUMENT-IDENTIFIER: US 6649357 B2

TITLE: Apparatus and method for detecting and identifying infectious agents

DATE-ISSUED: November 18, 2003

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Bryan; Bruce J. Beverly Hills CA Gaalema; Stephen Colorado Springs CO Murphy; Randall B. Irvington NY

US-CL-CURRENT: <u>435/7.1</u>; <u>356/215</u>, <u>356/222</u>, <u>356/317</u>, <u>422/57</u>, <u>422/58</u>, <u>422/68.1</u>, <u>422/82.05</u>, <u>422/82.08</u>, <u>435/288.7</u>, <u>435/6</u>, <u>435/7.9</u>, <u>435/808</u>, <u>435/973</u>, <u>435/975</u>, <u>436/164</u>, <u>436/172</u>, <u>436/518</u>, <u>436/524</u>, <u>436/527</u>, <u>436/532</u>, <u>436/805</u>

Full	Т	lie	Citation Front	Review	Classificatio	in Dati	e Reterence		Claims	KORAC	Draw De
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Γ	12	2.	Document ID): US 6	649356 E	32					

File: USPT

US-PAT-NO: 6649356

DOCUMENT-IDENTIFIER: US 6649356 B2

L4: Entry 12 of 23

TITLE: Apparatus and method for detecting and identifying infectious agents

Full	Title	Citation Front Review Classification Date Reference Claims KWC Draw De
***************************************	······	
	13.	Document ID: US 6596257 B2

File: USPT

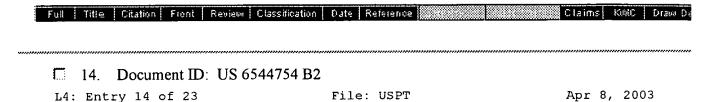
L4: Entry 13 of 23

US-PAT-NO: 6596257

DOCUMENT-IDENTIFIER: US 6596257 B2

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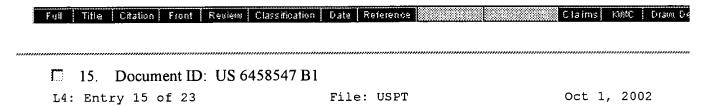
TITLE: Detection and visualization of neoplastic tissues and other tissues



US-PAT-NO: 6544754

DOCUMENT-IDENTIFIER: US 6544754 B2

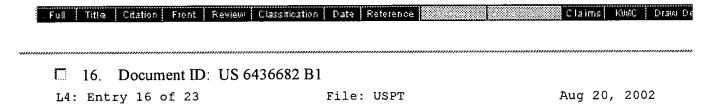
TITLE: Oplophorus <u>luciferase</u> subunits



US-PAT-NO: 6458547

DOCUMENT-IDENTIFIER: US 6458547 B1

TITLE: Apparatus and method for detecting and identifying infectious agents



US-PAT-NO: 6436682

DOCUMENT-IDENTIFIER: US 6436682 B1

TITLE: Luciferases, fluorescent proteins, nucleic acids encoding the <u>luciferases</u> and fluorescent proteins and the use thereof in diagnostics, high throughput screening and novelty items

Full Title Citation Front Review Class	sification Date Reference	Claims KWC Draw Do
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17. Document ID: US 64169	960 B1	
L4: Entry 17 of 23	File: USPT	Jul 9, 2002

US-PAT-NO: 6416960

DOCUMENT-IDENTIFIER: US 6416960 B1

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1 :	וא	Document	HJ.	U.S	024/993 I	3 I

L4: Entry 18 of 23

File: USPT

Jun 19, 2001

US-PAT-NO: 6247995

DOCUMENT-IDENTIFIER: US 6247995 B1

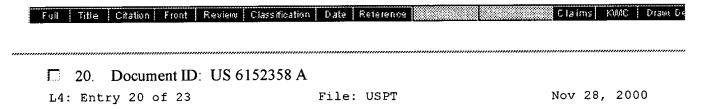
TITLE: Bioluminescent novelty items

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19. Document ID: US 62	232107 B1	
I.4: Entry 19 of 23	File: USPT	Mav 15, 2001

US-PAT-NO: 6232107

DOCUMENT-IDENTIFIER: US 6232107 B1

TITLE: Luciferases, fluorescent proteins, nucleic acids encoding the $\frac{1\text{uciferases}}{2\text{uciferases}}$ and fluorescent proteins and the use thereof in diagnostics, high throughput screening and novelty items

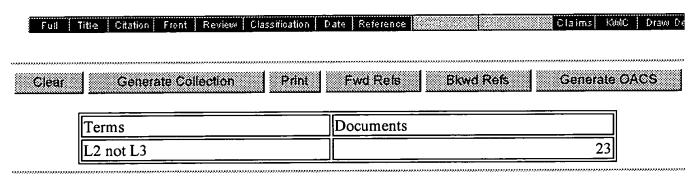


US-PAT-NO: 6152358

DOCUMENT-IDENTIFIER: US 6152358 A

** See image for Certificate of Correction **

TITLE: Bioluminescent novelty items



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Previous Page Next Page Go to Doc#

Clear Generale Collection Print Fwd Refs Bkwd Refs
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Search Results - Record(s) 21 through 23 of 23 returned.

21. Document ID: US 6113886 A

Using default format because multiple data bases are involved.

L4: Entry 21 of 23

File: USPT

Sep 5, 2000

US-PAT-NO: 6113886

DOCUMENT-IDENTIFIER: US 6113886 A

** See image for <u>Certificate of Correction</u> **

TITLE: Bioluminescent novelty items

DATE-ISSUED: September 5, 2000

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Bryan; Bruce Beverly Hills CA 90210

US-CL-CURRENT: $\underline{424}/\underline{49}$; $\underline{424}/\underline{63}$, $\underline{424}/\underline{64}$, $\underline{424}/\underline{69}$, $\underline{424}/\underline{70.1}$, $\underline{424}/\underline{70.6}$, $\underline{424}/\underline{70.7}$,

424/78.02, 424/94.4, 435/189, 510/119, 510/135, 510/392, 510/481

Full Title Citation Front Review Classification Date Reference Claims NMC Draw De Claims NMC De Claims NMC De Claims De

US-PAT-NO: 5876995

DOCUMENT-IDENTIFIER: US 5876995 A

** See image for <u>Certificate of Correction</u> **

TITLE: Bioluminescent novelty items

Full Title Citation Front Review Classification Date Reference Cla

L4: Entry 23 of 23 File: DWPI

Aug 29, 2002

DERWENT-ACC-NO: 2002-618950

DERWENT-WEEK: 200266

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         MAR 03
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          MAR 29
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          APR 26
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 NEWS 13
                  available
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 NEWS 14
         APR 26
                  NLDB: New search and display fields available
 NEWS 15
          APR 27
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 NEWS 16
          May 10
                  PROUSDDR: One FREE connect hour, per account, in both May
          May 19
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                  and June 2004
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                  Polymer links for the POLYLINK command completed in REGISTRY
              MARCH 31 CURRENT WINDOWS VERSION IS V7.00A, CURRENT
 NEWS EXPRESS
               MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP)
               AND CURRENT DISCOVER FILE IS DATED 26 APRIL 2004
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               General Internet Information
               Welcome Banner and News Items
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               CAS world wide web Site (general information)
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            41 PHRIXOTHRIX AND LUCIFERASE
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L2
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AN
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DN
     Improved Expression of Novel Red- and Green-emitting
                                                                ***Luciferases***
TI
          ***Phrixothrix*** Railroad Worms in Mammalian Cells.
     Nakajima Yoshihiro; Kimura Takuma; Suzuki Chie; Ohmiya Yoshihiro
AU
     Cell Dynamics Research Group, Research Institute for Cell Engineering,
CS
     National Institute of Advanced Industrial Science and Technology (AIST).
     Bioscience, biotechnology, and biochemistry, (2004 Apr) 68 (4) 948-51.
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     Journal code: 9205717. ISSN: 0916-8451.
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     Bidirectional role of orphan nuclear receptor RORalpha in clock gene
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     Nakajima Yoshihiro; Ikeda Masaaki; Kimura Takuma, Honma Sato; Ohmiya
AU
     Yoshihiro; Honma Ken-Ichi
     Cell Dynamics Research Group, Research Institute for Cell Engineering, National Institute of Advanced Industrial Science and Technology (AIST),
     Midorigaoka, Ikeda, Osaka 563-8577, Japan. FEBS letters, (2004 May 7) 565 (1-3) 122-6.
S<sub>0</sub>
     Journal code: 0155157. ISSN: 0014-5793.
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PubMed ID: 15047906
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   The influence of the regio etween residues 220 and 344 and eyond in Phrixotrix railroad worm "luciferases" green and red
TI
     bioluminescence.
     Viviani Vadim R; Joaquim da Silva Neto Antonio; Ohmiya Yoshihiro
cs ·
     Department of Mólecular and Cellular Biology, Harvard University,
     Cambridge, MA, USA.. viviani@rc.unesp.br
     Protein Eng Des Sel, (2004 Feb) 17 (2) 113-7.
SO
     Journal code: 101186484. ISSN: 1741-0126.
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DN
     An in vivo dual-reporter system of cyanobacteria using two railroad-worm
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       ***luciferases***
                           with different color emissions.
     Kitayama, Yohko; Kondo, Takao; Nakahira, Yoichi; Nishimura, Hideya;
ΑU
     Ohmiya, Yoshihiro; Oyama, Tokitaka [Reprint Author]
     Department of Biological Science, Graduate School of Science, Core
CS
     Research for Evolutional Science and Technology (CREST), Japan Science and
     Technology Agency (JST), Nagoya University, Furo-cho, Chikusa-ku, Nagoya,
     Aichi, 464-8602, Japan
     oyama@biol1.bio.nagoya-u.ac.jp
     Plant and Cell Physiology, (January 2004) Vol. 45, No. 1, pp. 109-113.
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     ANSWER 5 OF 13 HCAPLUS COPYRIGHT 2004 ACS on STN
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     Basic and application principle on the bioluminescence system of insect
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     Ohmiya, Yoshihiro
ΑU
     Cell Dynamics Res. Group., The Special Div. Human Life Technol., Natl.
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     Inst. Adv. Ind. Sci. Technol., Ikeda, 563-8577, Japan
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     Japanese
      ANSWER 6 OF 13 BIOTECHDS COPYRIGHT 2004 THOMSON DERWENT/ISI ON STN
L2
      2003-12415 BIOTECHDS
AN
      Novel modified polynucleotide of
                                          ***Phrixothrix***
                                                               hirtus red
TI
        ***luciferase***
                            encoding polypeptide capable of mediating
      light-production, useful as reporter molecule in host cells and/or
      transgenic animals;
         recombinant enzyme protein production useful for gene expression
         monitoring
      NAWOTKA K A; ZHANG W
ΑU
PA
      XENOGEN CORP
PΙ
      wo 2003016839 27 Feb 2003
      WO 2002-US26170 15 Aug 2002
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      WPĪ: 2003-268358 [26]
OS
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L2
      2003-01481 BIOTECHDS
ΑN
      Nucleic acid molecules encoding
                                         ***luciferases***
                                                              used as diagnostic
TT
      tools:
                           ***Phrixothrix***
                                                 vivianii recombinant enzyme gene
         vector-mediated
         transfer and expression in host cell for disease diagnosis
      VIVIANI V R; OHMIYA Y
ΑU
      VIVIANI V R; OHMIYA Y
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PI
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      US 2001-993874 14 Nov 200
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TI
                               ***luciferases***
      other pH-insensitive
     Viviani, V. R.; Uchida, A.; Viviani, W.; Ohmiya, Y.
Dept of Molecular and Cellular Biology, Harvard University, Cambridge, MA,
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      CODEN: 69DPGZ; ISBN: 981-238-156-2
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                THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
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                ALL CITATIONS AVAILABLE IN THE RE FORMAT
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      2001:269080 HCAPLUS
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      Luminescence assay system using luminescence reporter gene
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     Omiya, Katsuhiro; Ryufuku, Masayuki; Ono, Shoji; Takeuchi, Hideyuki
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      Jpn. Kokai Tokkyo Koho, 6 pp.
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      CODEN: JKXXAF
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      Japanese
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                                                                    DATE
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                                                                    19991012
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                                20010417
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      JP 2001103956
                                                 WO 2000-JP7049
                                                                    20001011
     wo 2001027316
                                20010419
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          RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
               PT, SE
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      viviani@fas.harvard.edu
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Department of Molecular and Cell Biology, Harvard University, Cambridge,
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                                                                   DUPLICATE 7
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                              MEDLINE on STN
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      PubMed ID: 10387072
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      Cloning, sequence analysis, and expression of active
                                                                        ***Phrixothrix***
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                          ***luciferases*** : relationship between bioluminescence
      railroad-worms
      spectra and primary structures.
      Viviani V R; Bechara E J; Ohmiya_Y
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      Department of Biochemistry, Faculty of Education, Shizuoka University,
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      Entered Medline: 19990722
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L2
      93:643530 SCISEARCH
AN
      The Genuine Article (R) Number: MC107
GΔ
      BIOPHYSICAL AND BIOCHEMICAL ASPECTS OF PHENGODID (RAILROAD-WORM)
TI
      BIOLUMINESCENCE
      VIVIANI V R: BECHARA E J H (Reprint)
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      UNIV SAO PAULO, INST QUIM, DEPT BIOQUIM, POB 20780, BR-01498 SAO PAULO,
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      Article; Journal
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      ENGLISH
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      Reference Count: 45
      *ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS*
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      ANSWER 13 OF 13 SCISEARCH COPYRIGHT 2004 THOMSON ISI on STN DUPLICATE 8 In studies of the bioluminescence of 11 species of phengodid collected
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AB
      in central and southeast Brazil, we have found that: (1) their lateral
      lanterns emit light in the yellow-green region (lambda(max) = 540-580 nm)
      and the head lantern color is shifted to the red region (lambda(max) = 565-620 nm), (2) the luciferins of both types of lanterns are identical to
      that of lampyrids and elaterids and (3) the ***luciferase***
      physicochemical properties are also similar to those of lampyrids and
      elaterids (optimum pH ca 8.1; K(m)(ATP) = 260-370 muM, K(m)(luciferin) = 170-400 muM, molecular weight ca 60 kDa; apparent activation energy of in vitro bioluminescence ca 58 kJ/mol). Thus the bioluminescence system of phengodids appears to be essentially the same as that of lampyrids and
      elaterids. The different bioluminescence colors of the lanterns of
                                species (lambda(head) = 600-620 nm; lambda(lateral) =
         ***Phrixothrix***
      535-565 nm) and other phengodid species are probably elicited by the
                       ***luciferase***
                                             isoenzymes, as occurs in the case of
      presence of
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elaterid prothoracic and abdominal lanterns.

FILE 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCAPLUS, NTIS, ESBIOBASE, BIOTECHNO, WPIDS' ENTERED AT 18:52:54 ON 12 MAY 2004

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SINCE FILE TOTAL SESSION 30.29 30.50

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SESSION WILL BE HELD FOR 60 MINUTES STN INTERNATIONAL SESSION SUSPENDED AT 18:57:13 ON 12 MAY 2004